

## Description

- ◆ New 10 storey student accommodation on the site of the Cardiff Royal Infirmary on Glossop Road named The West Wing. This 210k sq ft site is designed to offer the specific facilities and amenity areas in a secure environment
- ◆ 644 student apartments, studio style living, gym, private dining suite and study areas
- ◆ Constructed around a 1200 sq.m central courtyard giving students a dedicated, safe atmosphere to study and relax
- ◆ Development consists of accommodation ranging from 4 to a maximum of 10 floors, cluster accommodation and 324 bike spaces will be available for students.

## Involvement

- ◆ SDS are involved in the Design and specification of the M&E Services
- ◆ Full thermal modeling was undertaken to establish requirements for natural ventilation. The project team established options for the Library to be naturally ventilated, however the costs were high due to the acoustic attenuation required and a VRV heat recovery system was introduced which provided better performance, low running costs and reduced capital cost
- ◆ Value engineering resulted in point of use electric heaters and local electric heating to small ancillary spaces.



## Benefits Delivered

- ◆ Early engagement with the BREEM process allowing maximising realisation of BREEM credits to work towards achieving 'Excellent' accreditation
- ◆ Controls strategy to maximise CHP utilisation
- ◆ Working collaboratively as a part of an integrated design team providing our low carbon and building environmental expertise in order to deliver a sustainable building and realise a very good BREEM rating demonstrating environmentally friendly options for both the design and on-going operation of the building
- ◆ Reducing future carbon emissions by an estimated 18.6%
- ◆ 3D Revit modelling of services installation
- ◆ Efficient MEP systems and controls that offer reliability and ease of maintenance.



*This £75m development is designed with the students' needs in mind to study, live and partake in university life in a safe secure environment offering all the facilities to accomplish this*